

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/579,273	05/26/2000	Shoji Arikuma	000672	7798
23850 7.	590 12/01/2003		EXAMINER	
ARMSTRONG, KRATZ, QUINTOS, HANSON & BROOKS, LLP			LAO, LUN S	
SUITE 1000	1725 K STREET, NW SUITE 1000			PAPER NUMBER
WASHINGTON, DC 20006			2643	7
			DATE MAILED: 12/01/2003	3

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/579,273	ARIKUMA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Lun-See Lao	2643	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet	with the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above, is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statur Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	.136(a). In no event, however, may ply within the statutory minimum of t d will apply and will expire SIX (6) Mi te, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).	
1) Responsive to communication(s) filed on 09 s	September 2003.		
2a)⊠ This action is FINAL . 2b)□ This	s action is non-final.		
3) Since this application is in condition for allowations closed in accordance with the practice under			
Disposition of Claims			
4) ☐ Claim(s) is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 1-5 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/	awn from consideration.		
Application Papers			
9)☐ The specification is objected to by the Examin	er.		
10)☐ The drawing(s) filed on is/are: a)☐ ac	cepted or b)□ objected t	o by the Examiner.	
Applicant may not request that any objection to the	e drawing(s) be held in abey	ance. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct	•		
11) The oath or declaration is objected to by the E	xaminer. Note the attach	ed Office Action or form PTO-152.	
Priority under 35 U.S.C. §§ 119 and 120			
12) Acknowledgment is made of a claim for foreignal All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list 13) Acknowledgment is made of a claim for domessince a specific reference was included in the first 37 CFR 1.78. a) The translation of the foreign language profile 14. Acknowledgment is made of a claim for domessince was included in the first sentence of the foreign language profile 14.	nts have been received. Its have been received in only documents have been us (PCT Rule 17.2(a)). It of the certified copies not priority under 35 U.S.C rst sentence of the specificovisional application has tic priority under 35 U.S.C	Application No en received in this National Stage of received. C. § 119(e) (to a provisional application) ication or in an Application Data Sheet. been received. C. §§ 120 and/or 121 since a specific	
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notice of	V Summary (PTO-413) Paper No(s) f Informal Patent Application (PTO-152)	

Application/Control Number: 09/579,273 Page 2

Art Unit: 2643

DETAILED ACTION

Introduction

1. This action is response to the amendment filed on 09-09-2003. Claim 1-4 has been amended and claims 5 have been added. Claims 1-5 are pending.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsumoto (US PAT 5,621,659) in view of Heyl (US PAT. 5,774,567)

Consider claim 1 Matsumoto teach an audio component system comprising a plurality of components (see fig.1b, (11,21)) for outputting audio signals, and

a signal processing control unit (see fig.1a, 1) connected to the components (see fig.1b, (11,21)), the signal processing control unit (1) comprising

a plurality of signal input terminals (Pa, Pb and Pc) for receiving audio signals from the components,

selector means (4) connected to the signal input terminals for selecting the audio signal received by a desired one of the signal input terminals (see col.2 line 50-col.4 line 20),

Art Unit: 2643

a signal processing circuit for processing the selected signal and outputting the resulting audio signal (see col.23 line 5-col.24 line 15), and

a control circuit of the signal processing control unit (fig.1a, 1) connected to a respective control circuit (fig.1b, (12,22)) of each of the components (11,21), the control circuit of the signal processing control unit comprising signal transmitting means (see col.2 line50-col.4 line 20) for inherently automatically transmitting at a suitable time a call signal to the control circuit of at least one of the components which is to be checked for connection or non-connection(see col.17 line 35 –col.18 line 60), the control circuit of each component comprising signal response means for sending the answer signal to the signal processing control unit in response to the call signal from the control circuit of the signal processing control unit (see col.7 line 7-col.8line 38), but Matsumoto does not teach muting means, comprised in the signal processing means, for automatically reducing substantially to zero the sound volume of the audio signal selected by the control circuit which is to be output from the signal processing circuit when the audio signal selected by the selector means is from the component not responding to the answer signal.

However, Heyl teaches muting means (see fig.3 (110,112,114, 116))), comprised in the signal processing means (110,112,114,116), for automatically inherently reducing substantially to zero the sound volume of the audio signal selected by the control circuit which is to be output from the signal processing circuit when the audio signal selected by the selector means (110,112,114,116) is from the component not responding to the answer signal (see col.5 line 25-col.6 line 32).

Art Unit: 2643

Page 4

Therefore, it would have obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Matsumoto into the teaching of Heyl to provide a variable gain preamplifiers are no longer required for high quality sound system within personal computers.

Consider claims 2-5 Mastumoto teaches an audio component system of the signal transmitting means (see fig.1b, 1) of the control circuit of the signal processing control unit (1) transmits the call signal to the control circuits of all the components (see fig.1b, (11,21)) when the signal processing control unit is energized (see col.2 line 50-col.4 line20); and one of the signal input terminals (Pa, Pb and Pc) is selected by the selector means (4), the signal transmitting means (see fig.1a, (1)) of the control circuit of the signal processing control unit transmits the call signal to the control circuit of the component connected to the selected signal input terminal (see col.5 line 65- col.6 line 65); and the signal transmitting means (see fig.1a, (1)) of the control circuit of the signal processing control unit transmits the call signal to the control circuits of all the components in a predetermined cycle (see col.15 line 25-col.16 line 65), and the audio component system of the signal processing circuit amplifies the signal (see fig.18, (O/E, 52) and col.21 lines 10-33).

Response to Arguments

4. Applicant's arguments with respect to claim 1-5 have been considered but are moot in view of the new ground(s) of rejection.

Art Unit: 2643

Conclusion

Page 5

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

- 6. The prior art made of record and not relied upon is considered to applicant's disclosure.
- 7. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:(703) 872-9306

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

Art Unit: 2643

Page 6

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lao, Lun-See whose telephone number is (703) 305-2259. The examiner can normally be reached on Monday-Friday from 8:00 to 6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curtis Kuntz, can be reached on (703) 305-4708.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 whose telephone number is (703) 306-0377.

Lao, Lun-See Patent Examiner US Patent and Trademark Office Crystal Park 2 (703305-2259

DUC NGUYEN PRIMARY EXAMINER